

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional)

FP7507

First named inventor: CHEN, Mu-Lin

Application No.: 09/781,246

Art Unit: 3723

Filed: February 13, 2001

Examiner: Smith, J.

Title: RATCHET WRENCH

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus an extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee

☒ Small entity-fee \$ 750.00 (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.

☐ Other than small entity -- fee \$ _____ (37 CFR 1.17(m))

2. Reply and/or fee

A. The reply and/or fee to the above-noted Office action in the form of AMENDMENT (identify type of reply):

- ☐ has been filed previously on _____
- ☒ is enclosed herewith.

B. The issue fee and publication fee (if applicable) of \$ _____

- ☐ has been paid previously on _____
- ☐ is enclosed herewith.

(Page 1 of 2)

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and select option 2.

3. Terminal disclaimer with disclaimer fee

- ☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Yong C. Lei
Signature

July 21, 2006
Date

LEONG C. LEI
Typed or printed name

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Enclosures: ☒ Fee Payment

☒ Reply

☐ Terminal Disclaimer Form

☐ Additional sheets containing statements establishing unintentional delay

☐ Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- ☐ Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- ☐ Transmitted by facsimile on the date shown below to the United States Patent and Trademark Office as (571) 273-8300.

Date

Signature

Typed or printed name of person signing certificate

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
In- MU-LIN CHEN) Group Art Unit: 3723
Serial No. 09/781,246) Examiner: SMITH, J
Filed: February 13, 2001)
For: RATCHET WRENCH

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir,

AMENDMENT

This is responsive to the outstanding Official Action dated November 9, 2001. Please amend the above-referenced Patent Application as provided in the following paragraphs.

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph at page 6, line 2 to page 7, line 10, with the following rewritten paragraph:

-- Referring to Fig. 1, there is shown an improved structure of a ratchet wheel wrench 10 having an adaptation hole 11, and the internal diameter of the bottom end of the adaptation hole 11 is tapered to form into an engaging edge 12. The adaptation hole 11 can be placed with a ratchet wheel 20 and the external circumferential edge of the ratchet wheel 20 is provided with a plurality of mounting teeth 22. The center of the ratchet wheel 20 ~~[[is]]~~ has a hexagonal recess 21 or other shapes of recesses ~~to combine with other screwing components configured to receive a screwing component.~~ One lateral side of the adaptation hole 11 is provided with an adaptation recess 13 for the positioning of a stopping tooth 30, a directional block 60, two resisting elements 50 and two elastic bodies members 40. The adaptation recess 13 is positioned at an appropriate position to form two resisting edges 14. The stopping tooth 30 is substantially an arch-shaped element and is provided with a notch 33. At an appropriate position on the notch 33, a pivotal rod 34 is protruded, and the directional block 60 is positioned on the pivotal rod 34. The center of the directional block 60 ~~[[is]]~~ has a pivoting hole 61 for mounting the directional block 60 onto the pivotal rod 34. One lateral side of the stopping teeth 30 is provided with a plurality of engaging teeth 32 ~~for the combination which are engageable~~ with the mounting teeth 22. Two lateral sides of the stopping teeth are formed respectively into an urging face 31 which ~~[[urge]]~~ urges against the two lateral sides of the adaptation recess 13. Another side of the stopping teeth tooth 30 is restricted by the two resisting elements 50. The top end of the two resisting elements 50 ~~resists against the~~ has a resisting face 52 ~~at the bottom end which resists against the bottom of the stopping teeth tooth 30.~~ The end

terminal of the resisting elements 50 is formed into a blocking edge 51 which urges at the resisting edge 14. The two resisting elements 50 are urged by the elastic members 40 such that the stopping ~~teeth~~ tooth 30 is in engagement with the ratchet wheel as a result of the elasticity of the elastic members 40. The other end of the elastic members 40 urges at the side of the adaptation recess 13. Fig. 2 is a perspective view of the wrench and Fig. 3 is a front view of the wrench in accordance with the present invention. --

AMENDMENTS TO THE CLAIMS:

Claims 1-4 (canceled)

Claim 5 (new): A ratchet wrench comprising:

an adaptation hole provided with an adaptation recess, said adaptation recess being formed with two resisting edges;

a ratchet wheel fitted in said adaptation hole, said ratchet wheel having an external circumferential edge provided with a plurality of mounting teeth, a center of said ratchet wheel having a recess;

a stopping tooth fitted in said adaptation recess and provided with a plurality of engaging teeth engageable with said mounting teeth of ratchet wheel, said stopping tooth having a notch from which is protruded a pivotal rod, said stopping tooth being formed with two urging faces which urge against two lateral sides of said adaptation recess;

a directional block having a pivoting hole receiving said pivotal rod of said stopping tooth;

two resisting elements each having a resisting face which resists against a bottom of said stopping tooth; and

two elastic members each having a first end urging against a respective one of said resisting elements to engage said stopping tooth with said ratchet wheel, a second end of each of said elastic members urging at a respective one of said resisting edges of said adaptation recess;

whereby rotation of said directional block in one direction will push one of said resisting elements away from said stopping tooth thereby causing said ratchet wheel to rotate in only one direction and therefore enabling said ratchet wrench to fasten a fastening element.

Claim 6 (new): The ratchet wrench as claimed in claim 5, wherein an internal

diameter of a bottom of said adaptation hole is tapered to form into an engaging edge.

Claim 7 (new): The ratchet wheel as claimed in claim 5, wherein said recess of said ratchet wheel is hexagonal in shape.

REMARKS

This case has been carefully reviewed and analyzed in view of the outstanding Office Action dated November 9, 2001.

The Examiner has rejected claims 1-4 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Further, the Examiner has stated that claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. Claims 1-4 have been canceled and replaced with new claims 5-7 which are rewritten to overcome the rejection.

The applicant has reviewed the prior art as cited by the Examiner but not used in the rejection and believes that the new claims clearly and distinctly patentably define over such prior art.

It is now believed that the subject Patent Application has been placed in condition of allowance, and such action is respectfully requested.

Respectfully submitted,



Signature

Leong C. Lei

Registration No. 50402

July 21, 2006